BRUHAT BANGALORE MAHANAGARA PALIKE

KODIGEHALLI SUBDIVISION

WARD NO.07, Byatarayanapura

Measurements sheets

Name of work: Improvements to roads and drains in Mungurappa layout in ward No.07, Byatarayanapura.

Est Cost: 50.00 lakhs

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : Improvements to Roads and drains in Munigurappa Layout in ward No.07, Byatarayanapura

Agency: M/s Nandi Enterprises prop. Sri P Vijaya Babu #1504, 4th C main 2nd stage WOC Raod, Bangalore 560086.

MEASUREMENT SHEET - 1st and FINAL BILL

Chainage		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Remarks
From	To				(m)	(m)	(m)		
Item no.01		Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 m and an average lift upto 1.5m, excavated surafce levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking clods complete as per specifications and the directions of Engineer in-charge							
Measurement Recorded on									
		New Drain							
		1st Cross							
		Left Side							
0	30		Cum	1	30.00	0.95	0.80	22.80	
30	60		Cum	1	30.00	0.95	0.80	22.80	
60	90		Cum	1	30.00	0.95	0.80	22.80	
90	106.5		Cum	1	16.50	0.95	0.80	12.54	
		Right side							
12	30	(0 to 12 No Drain)	Cum	1	18.00	0.95	0.80	13.68	
30	60		Cum	1	30.00	0.95	0.80	22.80	
60	90		Cum	1	30.00	0.95	0.80	22.80	
90	106.5		Cum	1	16.50	0.95	0.80	12.54	
		3rd Cross							
		Left Side							
0	30		Cum	1	30.00	1.00	0.80	24.00	
30	60		Cum	1	30.00	1.00	0.80	24.00	
60	90		Cum	1	30.00	1.00	0.80	24.00	
90	100		Cum	1	10.00	1.00	0.80	8.00	
		Right Side							
0	30		Cum	1	30.00	1.00	0.80	24.00	
30	60		Cum	1	30.00	1.00	0.80	24.00	
60	90		Cum	1	30.00	1.00	0.80	24.00	
90	100		Cum	1	10.00	1.00	0.80	8.00	
		3rd Cross							
		Left Side							
9.5	30	(0 to 9.5 No Drain)	Cum	1	20.50	1.00	0.80	16.40	
30	60		Cum	1	30.00	1.00	0.80	24.00	
60	74.5		Cum	1	14.50	1.00	0.80	11.60	
		Right Side							
0	30		Cum	1	30.00	1.00	0.80	24.00	

388-76

P. Vijaya Babu

ontactor

Assistant Engineer

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike

MEASUREMENT SHEET - 1st and FINAL BILL B/F 388.74

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
30	60		Cum	1	30.00	1.00	0.80	24.00	
60	74.5		Cum	1	14.50	1.00	0.80	11.60	
		4th cross							
		Left Side							
0	30		Cum	1	30.00	1.00	0.80	24.00	
30	60		Cum	1	30.00	1.00	0.80	24.00	
60	90		Cum	1	30.00	1.00	0.80	24.00	
90	96.5		Cum	1	6.50	1.00	0.80	5.20	
		Right side							NDP Dt(1-11) 23/10
0	30		Cum	1	30.00	0.95	0.80	22.80	
30	60		Cum	1	30.00	0.95	0.80	22.80	
60	90		Cum	1	30.00	0.95	0.80	22.80	
90	96.5		Cum	1	6.50	0.95	0.80	4.94	186.14
							Total	**574.90**	

23/10/14

P. Vijaya Dab

ntactor

Assistant Engineer

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike

MEASUREMENT SHEET - 1st and FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
Item no.02		Providing and laying in position plain cement concrete of Mix 1:4:8 with OPC @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM curing complete as per specifications. and the directions of Engineer in-charge							
Measurement Recorded on									
		New Drain							
		1st Cross							
		Left Side							
0	30		Cum	1	30.00	0.95	0.15	4.28	
30	60		Cum	1	30.00	0.95	0.15	4.28	
60	90		Cum	1	30.00	0.95	0.15	4.28	
90	106.5		Cum	1	16.50	0.95	0.15	2.35	
		Right side							
12	30	(0 to 12 No Drain)	Cum	1	18.00	0.95	0.15	2.57	
30	60		Cum	1	30.00	0.95	0.15	4.28	
60	90		Cum	1	30.00	0.95	0.15	4.28	
90	106.5		Cum	1	16.50	0.95	0.15	2.35	NDP DE(Tech) 26/10
		3rd Cross							
		Left Side							
0	30		Cum	1	30.00	0.80	0.15	3.60	
30	60		Cum	1	30.00	0.80	0.15	3.60	
60	90		Cum	1	30.00	0.80	0.15	3.60	
90	100		Cum	1	10.00	0.80	0.15	1.20	
		Right Side							
0	30		Cum	1	30.00	0.80	0.15	3.60	
30	60		Cum	1	30.00	0.80	0.15	3.60	
60	90		Cum	1	30.00	0.80	0.15	3.60	
90	100		Cum	1	10.00	0.80	0.15	1.20	NDP DE(Tech) 28/10
		3rd Cross							
		Left Side							
9.5	30	(0 to 9.5 No Drain)	Cum	1	20.50	0.80	0.15	2.46	
30	60		Cum	1	30.00	0.80	0.15	3.60	
60	74.5		Cum	1	14.50	0.80	0.15	1.74	
		Right Side							
0	30		Cum	1	30.00	0.80	0.15	3.60	
30	60		Cum	1	30.00	0.80	0.15	3.60	
60	74.5		Cum	1	14.50	0.80	0.15	1.74	
		4th cross						69.41	
		Left Side							

ntactor

Assistant Engineer

Assistant Executive Engineer
Bangalore - 560 002

MEASUREMENT SHEET - 1st and FINAL BILL

B/F 69.41

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
0	30		Cum	1	30.00	0.80	0.15	3.60	
30	60		Cum	1	30.00	0.80	0.15	3.60	
60	90		Cum	1	30.00	0.80	0.15	3.60	
90	96.5		Cum	1	6.50	0.80	0.15	0.78	
		Right side							
0	30		Cum	1	30.00	0.80	0.15	3.60	
30	60		Cum	1	30.00	0.80	0.15	3.60	
60	90		Cum	1	30.00	0.80	0.15	3.60	
90	96.5		Cum	1	6.50	0.80	0.15	0.78	NDP DE(HQ) 28/10
		For Ramps (Length for Shoulder Drains Deducted							Certified 28/10/19
		Left Side							
0	30		Cum	1	30.00	0.10	0.10	0.30	
30	60		Cum	1	30.00	0.10	0.10	0.30	
60	95		Cum	1	35.00	0.10	0.10	0.35	
		Right side							
12	30	(0 to 12 No Drain)	Cum	1	18.00	0.10	0.10	0.18	
30	60		Cum	1	30.00	0.10	0.10	0.30	
60	85		Cum	1	25.00	0.10	0.10	0.25	
		3rd Cross							
		Left Side							
0	30		Cum	1	30.00	0.10	0.10	0.30	
30	60		Cum	1	30.00	0.10	0.10	0.30	
60	90		Cum	1	30.00	0.10	0.10	0.30	
		Right Side							
0	30		Cum	1	30.00	0.10	0.10	0.30	
30	60		Cum	1	30.00	0.10	0.10	0.30	
60	90		Cum	1	30.00	0.10	0.10	0.30	NDP DE(HQ) 30/11/2020
		3rd Cross							
		Left Side							
9.5	30	(0 to 9.5 No Drain)	Cum	1	20.50	0.10	0.10	0.21	
30	67		Cum	1	37.00	0.10	0.10	0.37	
		Right Side							
0	30		Cum	1	30.00	0.10	0.10	0.30	
30	67		Cum	1	37.00	0.10	0.10	0.37	
		4th cross							
		Left Side							
0	30		Cum	1	30.00	0.10	0.10	0.30	
30	60		Cum	1	30.00	0.10	0.10	0.30	
60	86		Cum	1	26.00	0.10	0.10	0.26	

28.75 + 69.41 = 98.46

P. Vijaya Babu

Contactor

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

MEASUREMENT SHEET - 1st and FINAL BILL 98.46

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
		Right side							
0	30		Cum	1	30.00	0.10	0.10	0.30	
30	60		Cum	1	30.00	0.10	0.10	0.30	certified
60	86		Cum	1	26.00	0.10	0.10	0.26	0.86
							Total	98.99	98.32
							Quantity Limited to	86.29	NDP AE(NSI) 30/12/2020 30/12

P. Vijaya Dabi
Contactor

Assistant Engineer

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

MEASUREMENT SHEET - 1st and FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
Item No.03		Providing laying plain/ reinforced cement concrete for side Drains Using M20 nominal mix Concrete with OPC at 300kgs.With 20mm and Down size granite metal coarse aggregate at 0.69cum and fine aggregate at 0.43cum Machne mixed, well compacted for wall and Bottom including centering shuttering,cost of materials,HOM of Machinery, Curing Etc.,Complete Excluding cost of Steel as per morth MORTH specification No. 1500, 1700, 2200. Including Cost of material, Labour, HOM complete as per Specification and the directions of Engineer in-charge							
Measurement Recorded on									
		Bottom Raff							
		1st Cross							
		Left Side							
0	30		Cum	1	30.00	0.90	0.15	4.05	
30	60		Cum	1	30.00	0.90	0.15	4.05	
60	90		Cum	1	30.00	0.90	0.15	4.05	
90	106.5		Cum	1	16.50	0.90	0.15	2.23	
		Right side							
12	30	(0 to 12 No Drain)	Cum	1	18.00	0.90	0.15	2.43	
30	60		Cum	1	30.00	0.90	0.15	4.05	
60	90		Cum	1	30.00	0.90	0.15	4.05	
90	106.5		Cum	1	16.50	0.90	0.15	2.23	
		3rd Cross							
		Left Side							
0	30		Cum	1	30.00	0.75	0.15	3.38	
30	60		Cum	1	30.00	0.75	0.15	3.38	
60	90		Cum	1	30.00	0.75	0.15	3.38	
90	100		Cum	1	10.00	0.75	0.15	1.13	
		Right Side							
0	30		Cum	1	30.00	0.75	0.15	3.38	
30	60		Cum	1	30.00	0.75	0.15	3.38	
60	90		Cum	1	30.00	0.75	0.15	3.38	
90	100		Cum	1	10.00	0.75	0.15	1.13	
		3rd Cross							
		Left Side							
9.5	30	(0 to 9.5 No Drain)	Cum	1	20.50	0.75	0.15	2.31	
30	60		Cum	1	30.00	0.75	0.15	3.38	
60	74.5		Cum	1	14.50	0.75	0.15	1.63	
		Right Side							
0	30		Cum	1	30.00	0.75	0.15	3.38	

60.38

P. Vijaya Babu
Contactor

Assistant Engineer

Assistant Executive Engineer

MEASUREMENT SHEET - 1st and FINAL BILL B/F 60.38

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
30	60		Cum	1	30.00	0.75	0.15	3.38	
60	74.5		Cum	1	14.50	0.75	0.15	1.63	
		4th cross							
		Left Side							
0	30		Cum	1	30.00	0.75	0.15	3.38	
30	60		Cum	1	30.00	0.75	0.15	3.38	
60	90		Cum	1	30.00	0.75	0.15	3.38	
90	96.5		Cum	1	6.50	0.75	0.15	0.73	
		Right side							
0	30		Cum	1	30.00	0.75	0.15	3.38	
30	60		Cum	1	30.00	0.75	0.15	3.38	
60	90		Cum	1	30.00	0.75	0.15	3.38	
90	96.5		Cum	1	6.50	0.75	0.15	0.73	
		Side wall							
		1st Cross							
		Left Side							
0	30		Cum	2	30.00	0.15	0.45	4.05	
30	60		Cum	2	30.00	0.15	0.50	4.50	
60	90		Cum	2	30.00	0.15	0.55	4.95	
90	106.5		Cum	2	16.50	0.15	0.60	2.97	
		Right side							
12	30	(0 to 12 No Drain)	Cum	2	18.00	0.15	0.45	2.43	
30	60		Cum	2	30.00	0.15	0.50	4.50	
60	90		Cum	2	30.00	0.15	0.55	4.95	
90	106.5		Cum	2	16.50	0.15	0.60	2.97	
		3rd Cross							
		Left Side							
0	30		Cum	2	30.00	0.15	0.45	4.05	
30	60		Cum	2	30.00	0.15	0.50	4.50	
60	90		Cum	2	30.00	0.15	0.55	4.95	
90	100		Cum	2	10.00	0.15	0.60	1.80	
		Right Side							
0	30		Cum	2	30.00	0.15	0.45	4.05	
30	60		Cum	2	30.00	0.15	0.50	4.50	
60	90		Cum	2	30.00	0.15	0.55	4.95	
90	100		Cum	2	10.00	0.15	0.60	1.80	

88.67 + 60.38 = 149.05

Contactor

Assistant Engineer

Assistant Executive Engineer

MEASUREMENT SHEET - 1st and FINAL BILL B/F 149.05

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
		3rd Cross							
		Left Side							
9.5	30	(0 to 9.5 No Drain)	Cum	2	20.50	0.15	0.50	3.08	
30	60		Cum	2	30.00	0.15	0.55	4.95	
60	74.5		Cum	2	14.50	0.15	0.60	2.61	
		Right Side							
0	30		Cum	2	30.00	0.15	0.50	4.50	
30	60		Cum	2	30.00	0.15	0.55	4.95	
60	74.5		Cum	2	14.50	0.15	0.60	2.61	
		4th cross							
		Left Side							
0	30		Cum	2	30.00	0.15	0.45	4.05	
30	60		Cum	2	30.00	0.15	0.50	4.50	
60	90		Cum	2	30.00	0.15	0.55	4.95	
90	96.5		Cum	2	6.50	0.15	0.60	1.17	
		Right side							
0	30		Cum	2	30.00	0.15	0.45	4.05	
30	60		Cum	2	30.00	0.15	0.50	4.50	
60	90		Cum	2	30.00	0.15	0.55	4.95	
90	96.5		Cum	2	6.50	0.15	0.60	1.17	
							Total	201.00	
							Quantity Limited to	200.36	

Centre Line 52.04 + 55/12/

NDP DE (HT) 25/12/2020

Contactor

Assistant Engineer

Assistant Executive Engineer
Kadugodi Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

MEASUREMENT SHEET - 1st and FINAL BILL									
Chainage		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Remarks
From	To				(m)	(m)	(m)		
Item No.04		Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. and the directions of Engineer in-charge							
Measurement Recorded on									
		For Drain	Tonne		201.00	0.055		11.05	
							Total	**11.05**	
							Quantity Limited to	**11.02**	

Contactor

Assistant Engineer

Assistant Executive Engineer

STEEL CALCULATION

Sl NO	Description	Nos	BAR DIA	No. Bars	Total No. bars	Length	Total Length	Weight	Total weight
			mm			m	m	kg/m	Kg's
	Item no.4	Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. and as per the directions of the Engineer-in-charge of the work .							
	1st Cross								
	Left Side						1410.75		
	Main Bars (#10@160 c/c)	1	12	627	627	2.25	1411.81	0.887814	1252.48 / 1253.42
	Distribution(9-#8)	1	8	9	9	106.50	958.00	0.394584	378.01
							958.50		378.20
	RHS Drain								
	Main Bars (#10@160 c/c)	1	12	557	557	2.25	1253.25 / 1252.99	0.887814	1112.65 / 1112.42
	Distribution(9-#8)	1	8	9	9	94.50	850.50	0.394584	335.59
	3rd Cross								
	Left Side								
	Main Bars (#10@160 c/c)	1	12	589	589	2.25	1325.25 / 1325.78	0.887814	1176.52 / 1177.05
	Distribution(9-#8)	1	8	8	8	100.00	800.00	0.394584	315.67
	RHS Drain								
	Main Bars (#10@160 c/c)	1	12	589	589	2.25	1325.25 / 1325.78	0.887814	1176.52 / 1177.05
	Distribution(9-#8)	1	8	8	8	100.00	800.00	0.394584	315.67
	3rd Cross								
	Left Side								
	Main Bars (#10@160 c/c)	1	12	383	383	2.25	861.75 / 862.54	0.887814	765.07 / 765.78
	Distribution(9-#8)	1	8	8	8	65.00	520.00	0.394584	205.18
	RHS Drain								
	Main Bars (#10@160 c/c)	1	12	439	439	2.25	987.75 / 988.28	0.887814	876.23 / 877.41
	Distribution(9-#8)	1	8	8	8	74.50	596.00	0.394584	235.17
	4th cross								
	Left Side								
	Main Bars (#10@160 c/c)	1	12	569	569	2.25	1280.25 / 1279.46	0.887814	1136.62 / 1135.92
	Distribution(9-#8)	1	8	8	8	96.50	772.00	0.394584	304.62
	RHS Drain								
	Main Bars (#10@160 c/c)	1	12	569	569	2.25	1280.25 / 1279.46	0.887814	1136.62 / 1135.92
	Distribution(9-#8)	1	8	8	8	96.50	772.00	0.394584	304.62
					11028.28			TOTAL QTY IN KG'S	11029.5
					11.02			TOTAL QTY IN TONNE	11.02

NDD AE(NE) 31/10

NDD AE(NE) 31/10

NDD AE(NE) 1/11

NDD AE(NE) 1/11

P Lokaya Babu
Contractor

Assistant Engineer

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

MEASUREMENT SHEET - 1st and FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
Item No.05		Providing and removing Centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square / rectangular slabs /side walls polygon in plan including cost of materials, labour complete as per specification and directions of the Engineer in charge.							
Measurement Recorded on									
		Side wall							
		1st Cross							
		Left Side							
0	30		Sqm	4	30.00		0.45	54.00	
30	60		Sqm	4	30.00		0.60	72.00	
60	90		Sqm	4	30.00		0.60	72.00	
90	106.5		Sqm	4	16.50		0.60	39.60	
		Right side							
12	30	(0 to 12 No Drain)	Sqm	4	18.00		0.45	32.40	
30	60		Sqm	4	30.00		0.60	72.00	
60	90		Sqm	4	30.00		0.60	72.00	
90	106.5		Sqm	4	16.50		0.60	39.60	NDP DE(WST) 6/11
		3rd Cross							
		Left Side							
0	30		Sqm	4	30.00		0.45	54.00	
30	60		Sqm	4	30.00		0.60	72.00	
60	90		Sqm	4	30.00		0.60	72.00	
90	100		Sqm	4	10.00		0.60	24.00	
		Right Side							
0	30		Sqm	4	30.00		0.45	54.00	
30	60		Sqm	4	30.00		0.60	72.00	
60	90		Sqm	4	30.00		0.60	72.00	
90	100		Sqm	4	10.00		0.60	24.00	NDP DE(WST) 6/11
		3rd Cross							
		Left Side							
9.5	30	(0 to 9.5 No Drain)	Sqm	4	20.50		0.50	41.00	
30	60		Sqm	4	30.00		0.60	72.00	
60	74.5		Sqm	4	14.50		0.60	34.80	
		Right Side							
0	30		Sqm	4	30.00		0.50	60.00	
30	60		Sqm	4	30.00		0.60	72.00	
60	74.5		Sqm	4	14.50		0.60	34.80	

Cert. Upto 11/15

12/12/20

Contactor

A.N.D
Assistant Engineer

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 002

MEASUREMENT SHEET - 1st and FINAL BILL B/F 1212.20

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
		4th cross							
		Left Side							
0	30		Sqm	4	30.00		0.45	54.00	
30	60		Sqm	4	30.00		0.60	72.00	
60	90		Sqm	4	30.00		0.60	72.00	
90	96.5		Sqm	4	6.50		0.60	15.60	
		Right side							
0	30		Sqm	4	30.00		0.45	54.00	
30	60		Sqm	4	30.00		0.60	72.00	
60	90		Sqm	4	30.00		0.60	72.00	
90	96.5		Sqm	4	6.50		0.60	15.60	427.20
							Total	**1639.40**	NDD DE(W2) 8/11

Certified
8/11/19

Contactor

Assistant Engineer

Assistant Executive Engineer

MEASUREMENT SHEET - 1st and FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
Item No.06		Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. and the directions of Engineer in-charge							
Measurement Recorded on									
		For Ramps (Length for Shoulder Drains Deducted							
		Left Side							
0	30		Cum	1	30.00	0.15	0.10	0.45	
30	60		Cum	1	30.00	0.15	0.10	0.45	
60	95		Cum	1	35.00	0.15	0.10	0.53	
		Right side							
12	30	(0 to 12 No Drain)	Cum	1	18.00	0.15	0.10	0.27	
30	60		Cum	1	30.00	0.15	0.10	0.45	
60	85		Cum	1	25.00	0.15	0.10	0.38	
		3rd Cross							
		Left Side							
0	30		Cum	1	30.00	0.15	0.10	0.45	
30	60		Cum	1	30.00	0.15	0.10	0.45	
60	90		Cum	1	30.00	0.15	0.10	0.45	
		Right Side							
0	30		Cum	1	30.00	0.15	0.10	0.45	
30	60		Cum	1	30.00	0.15	0.10	0.45	
60	90		Cum	1	30.00	0.15	0.10	0.45	
		3rd Cross							
		Left Side							
9.5	30	(0 to 9.5 No Drain)	Cum	1	20.50	0.15	0.10	0.31	
30	67		Cum	1	37.00	0.15	0.10	0.56	
		Right Side							
0	30		Cum	1	30.00	0.15	0.10	0.45	
30	67		Cum	1	37.00	0.15	0.10	0.56	
		4th cross							
		Left Side							
0	30		Cum	1	30.00	0.15	0.10	0.45	
30	60		Cum	1	30.00	0.15	0.10	0.45	
60	86		Cum	1	26.00	0.15	0.10	0.39	
		Right side							
0	30		Cum	1	30.00	0.15	0.10	0.45	

8.85

P. Narayana Dabi
Contactor

Assistant Engineer

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

MEASUREMENT SHEET - 1st and FINAL BILL B/F. 8.85

Chainage		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Remarks
From	To				(m)	(m)	(m)		
30	60		Cum	1	30.00	0.15	0.10	0.45	
60	86		Cum	1	26.00	0.15	0.10	0.39	0.84
							Total	**9.67**	9.89
							Quantity Limited to	**9.23**	NDP DE(RR) 07/01/2020

Cafe
7/1/2020

P Vijaya Babu
Contactor

Assistant Engineer

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

Assistant Executive Engineer

MEASUREMENT SHEET - 1st and FINAL BILL									
Chainage		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Remarks
From	To				(m)	(m)	(m)		
Item No.07		Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete. and the directions of Engineer in-charge							
Measurement Recorded on									
		1st Cross							
		Left Side							
0	30		Sqm	1	30.00	0.90		27.00	
30	60		Sqm	1	30.00	0.90		27.00	
60	90		Sqm	1	30.00	0.90		27.00	
90	106.5		Sqm	1	16.50	0.90		14.85	
		Right side							
12	30	(0 to 12 No Drain)	Sqm	1	18.00	0.90		16.20	
30	60		Sqm	1	30.00	0.90		27.00	
60	90		Sqm	1	30.00	0.90		27.00	
90	106.5		Sqm	1	16.50	0.90		14.85	
		3rd Cross							
		Left Side							
0	30		Sqm	1	30.00	0.75		22.50	
30	60		Sqm	1	30.00	0.75		22.50	
60	90		Sqm	1	30.00	0.75		22.50	
90	100		Sqm	1	10.00	0.75		7.50	
		Right Side							
0	30		Sqm	1	30.00	0.75		22.50	
30	60		Sqm	1	30.00	0.75		22.50	
60	90		Sqm	1	30.00	0.75		22.50	
90	100		Sqm	1	10.00	0.75		7.50	
		3rd Cross							
		Left Side							
9.5	30	(0 to 9.5 No Drain)	Sqm	1	20.50	0.75		15.38	
30	60		Sqm	1	30.00	0.75		22.50	
60	74.5		Sqm	1	14.50	0.75		10.88	
		Right Side							
0	30		Sqm	1	30.00	0.75		22.50	
30	60		Sqm	1	30.00	0.75		22.50	
60	74.5		Sqm	1	14.50	0.75		10.88	
		4th cross				0.75			
		Left Side							
0	30		Sqm	1	30.00	0.75		22.50	
30	60		Sqm	1	30.00	0.75		22.50	
60	90		Sqm	1	30.00	0.75		22.50	
90	96.5		Sqm	1	6.50	0.75		4.88	
		Right side						507.92	

P. Vijaya Babu

Contactor

Assistant Engineer

Assistant Executive Engineer

Assist
Koolgudi Sub Division
Bruhat Bangalore Mahanagara Palike

MEASUREMENT SHEET - 1st and FINAL BILL B/F. 507.32

Chainage		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Remarks
From	To				(m)	(m)	(m)		
0	30		Sqm	1	30.00	0.75		22.50	—
30	60		Sqm	1	30.00	0.75		22.50	—
60	90		Sqm	1	30.00	0.75		22.50	—
90	96.5		Sqm	1	6.50	0.75		4.88	72.38
							Total	**580.28**	
							Quantity Limited to	**513.75**	NDP AE(Civil) 07/01/2020

7/1/2020

Contactor

Assistant Engineer

Assistant Executive Engineer

MEASUREMENT SHEET - 1st and FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
Item No.08		Providing one line dressing to granite stone slab / granite stone masonry as per specifications. and the directions of Engineer in-charge							
		Measurement Recorded on							
		1st Cross							
		Left Side							
0	30		Sqm	1	30.00	0.90		27.00	
30	60		Sqm	1	30.00	0.90		27.00	
60	90		Sqm	1	30.00	0.90		27.00	
90	106.5		Sqm	1	16.50	0.90		14.85	
		Right side							
12	30	(0 to 12 No Drain)	Sqm	1	18.00	0.90		16.20	
30	60		Sqm	1	30.00	0.90		27.00	
60	90		Sqm	1	30.00	0.90		27.00	
90	106.5		Sqm	1	16.50	0.90		14.85	
		3rd Cross							
		Left Side							
0	30		Sqm	1	30.00	0.75		22.50	
30	60		Sqm	1	30.00	0.75		22.50	
60	90		Sqm	1	30.00	0.75		22.50	
90	100		Sqm	1	10.00	0.75		7.50	
		Right Side							
0	30		Sqm	1	30.00	0.75		22.50	
30	60		Sqm	1	30.00	0.75		22.50	
60	90		Sqm	1	30.00	0.75		22.50	
90	100		Sqm	1	10.00	0.75		7.50	
		3rd Cross							
		Left Side							
9.5	30	(0 to 9.5 No Drain)	Sqm	1	20.50	0.75		15.38	
30	60		Sqm	1	30.00	0.75		22.50	
60	74.5		Sqm	1	14.50	0.75		10.88	
		Right Side							
0	30		Sqm	1	30.00	0.75		22.50	
30	60		Sqm	1	30.00	0.75		22.50	
60	74.5		Sqm	1	14.50	0.75		10.88	
		4th cross							
		Left Side							
0	30		Sqm	1	30.00	0.75		22.50	
30	60		Sqm	1	30.00	0.75		22.50	
60	90		Sqm	1	30.00	0.75		22.50	
90	96.5		Sqm	1	6.50	0.75		4.88	
		Right side							

P Lokaya Dabe
Contactor

Assistant Engineer

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

MEASUREMENT SHEET - 1st and FINAL BILL

Chainage		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Remarks
From	To				(m)	(m)	(m)		
0	30		Sqm	1	30.00	0.75		22.50	
30	60		Sqm	1	30.00	0.75		22.50	
60	90		Sqm	1	30.00	0.75		22.50	
90	96.5		Sqm	1	6.50	0.75		4.88	
							Total	**580.28**	
							Quantity Limited to	**513.75**	

KDP DE(WS) 3/1/2020

3/1/2020

Contactor

Assistant Engineer

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

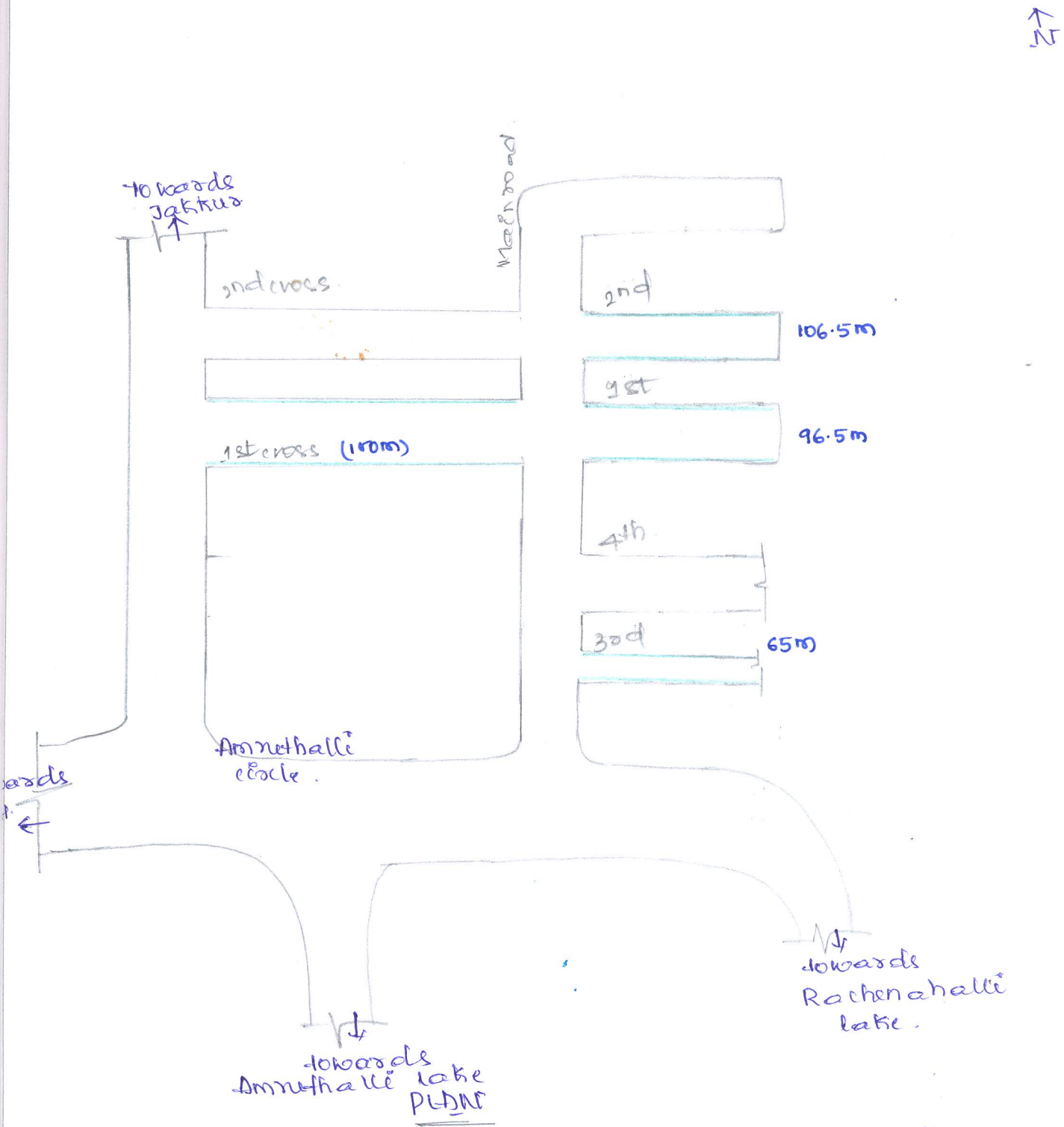
MEASUREMENT SHEET - 1st and FINAL BILL									
Chainage		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Remarks
From	To				(m)	(m)	(m)		
Item No.09		Loading and unloading of stone boulder/stone aggregates/ sand/ kanker/ moorum.Placing tipper at loading point loading with front end loading, dumping turning for return trip, excluding time for haulage and return trip complete as per specification and the directions of Engineer in-charge							
Measurement Recorded on									
		Considered same Qty vide I.No	cum					**574.90**	NDP DE(NS)

Contactor

Assistant Engineer

Assistant Executive Engineer

Name of work:- improvements to roads and drains in Munjesappa layout in ward no.07, Byatarayanapura.



INDEX.

- RCC drain

Asst/Ly. Ex.D
AE(civil)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092